Bronze

1a. Multiply or divide? Show you know how to convert the measurement by completing these statements.

To convert 5m into millimetres, _____ by 1,000. The answer is _____.

To convert 3,000ml into litres, _____ by 1,000. The answer is _____.

To convert 7L into millilitres, _____ by 1,000. The answer is _____.

VF

1b. Which two measurements combine to make 6L?

2L

5,000ml

4,000ml

PS

2a. Complete the table below.

mm	m
	2
4,000	
8,000	
	3

VF

2b. Is the following statement correct?

6m > 5,000mm

Explain your answer.

R

3a. Order these mixed measurements from largest to smallest.

2,000mm

6,000mm

1m

3m

5,000mm

VF

3b. Phoebe has 3L of water in her bucket.
Jess has 5,000ml of water in her bucket.

Phoebe adds 4L of water to her bucket.
Jess adds 1,000ml to her bucket.

Jess says,

My bucket has the least amount of water.

Is she right? Explain how you know.

4a. Draw lines to match the equivalent measurements.

1,000ml	2,000mm
2m	3m
5L	1L
3,000mm	5,000ml

Silver

5a. Multiply or divide? Show you know how to convert the measurement by completing these statements.

To convert 2.3m into millimetres, _____ by 1,000. The answer is _____.

To convert 3,200ml into litres, _____ by 1,000. The answer is _____.

To convert 5.7L into millilitres, _____ by 1,000. The answer is _____.

VF

6a. Complete the table below.

$\frac{?}{1000}$	ml	L
$\frac{300}{1000}$		
	900	
		0.6

VF

7a. Order these mixed measurements from largest to smallest.

4,100mm | 4m | 4.2m | 0.3m | 400mm

VF

8a. Draw lines to match the equivalent measurements.

1,500ml	2,500mm
$2\frac{1}{2}$m	2,200mm
1.4L	1.5L
$2\frac{1}{5}$m	1,400ml

4b. Which three measurements combine to make 5.7L?

0.5L | 1,500ml | 3,700ml | 1.3L | 4.6L

PS

5b. Is the following statement correct?

$\frac{900}{1000}$ L = 900ml > 0.9L

Explain your answer.

R

6b. Brooke's bucket can hold 2,800ml. Lily's bucket can hold 1.2L. Both fill their buckets half way. Brooke adds an extra 500ml and Lily adds an extra 200ml.

Lily says,

My bucket has the least amount of water.

Is she right? Explain how you know.

Gold

9a. Multiply or divide? Show you know how to convert the measurement by completing these statements.

To convert 2.34m into millimetres, _____ by 1,000. The answer is _____.

To convert 4,010ml into litres, _____ by 1,000. The answer is _____.

To convert 5.77L into millilitres, _____ by 1,000. The answer is _____.

VF

10a. Complete the table below.

$\frac{?}{1000}$	ml	L
$\frac{350}{1000}$		
	590	
		0.71

VF

11a. Order these mixed measurements from largest to smallest.

460mm 4.36m 4.26m 0.29m 426mm

VF

12a. Draw lines to match the equivalent measurements.

7,760ml	7,750mm
$7\frac{3}{4}$m	7,500mm
7.45L	7.76L
$7\frac{2}{4}$m	7,450ml

7b. Which three measurements combine to make 5.75L?

1.75L 1,250ml 2,700ml 1.5L $2\frac{3}{4}$L

PS

8b. Is the following statement correct?

0.15L > $\frac{15}{1000}$L < 150ml

Explain your answer.

R

9b. Ava's bucket can hold 6.3L. Olivia's bucket can hold 3,800ml. Ava fills a third of her bucket and then adds 250ml. Olivia fills her bucket half way. She then adds 450ml of water.

Olivia says,

We have the same amount of water.

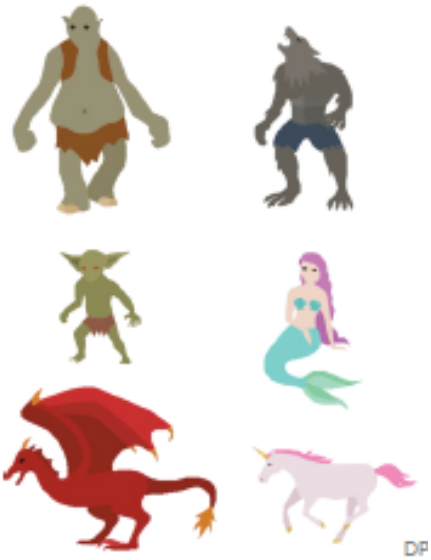
Is she right? Explain how you know.

Challenge

1. Albus the wizard is creating potions. His cauldron can hold 11.95L of liquid. He needs to fill his cauldron to at least 11.1L and use at least 5 different ingredients.

What combinations of ingredients could he use? You can use each ingredient more than once.

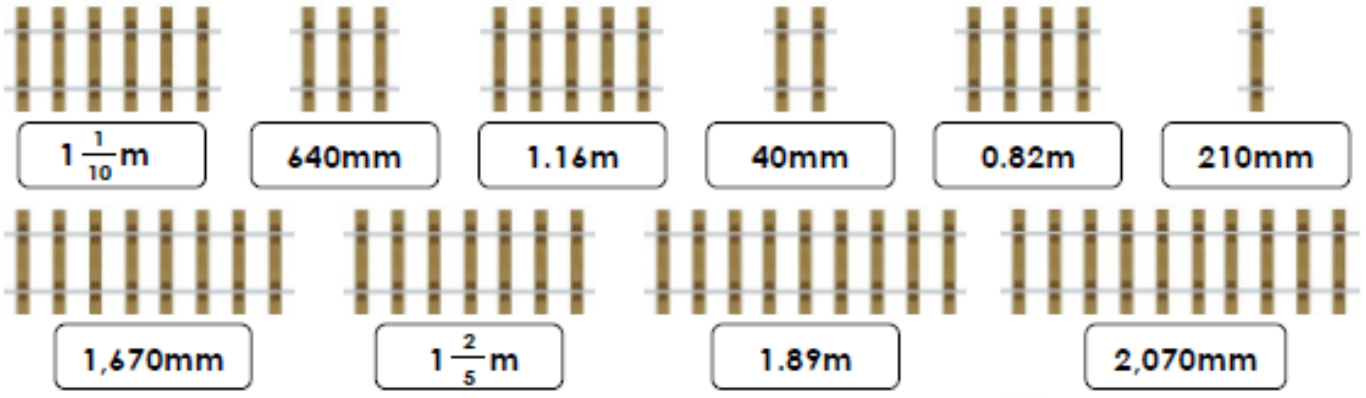
Ingredients	Volume
Ogre blood	0.81L
Goblin vomit	$1\frac{3}{4}$L
Dragon oil	3,760ml
Unicorn milk	1,390ml
Mermaid tears	0.15L
Lycan mucus	$2\frac{3}{5}$L



2. Lola is trying to build a model train track using different parts. Her track needs to measure between 8.9m and 9.71m.

Using the different pieces below, what combinations of tracks could she use? She can only use each part twice and must use at least 5 different parts of different lengths.

What is the closest she can get to 9.71m without going over the required length?



Not drawn to scale.